STIC EIC 2100 Search Request Form

131775

Today's Date: 9/7/04

What date would you like to use to limit the search?

Priority Date: Other:

Name MICHAEL B. HOLMES

AU 2121 Examiner # 78360

Room # 2C06 Phone 308-6280

Serial # 10/045,221

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

CACHE CLEARS

TACK

THIS IS VERY COMPLICATED

BUT THEN AGAIN... WHAT'S NEW

STIC Searcher Geoffrey St. Leger Phone 308-7800

Date picked up 9/7/4 Date Completed 9/9/4

sira Search and Information Resources Administration

STIC Search Report
EIC 2100

Scientific & Technical Information Center
USPTO

STIC Database Tracking Number: 131775

TO: Michael B Holmes **Location: 2C06** **Art Unit : 2121** **Thursday, September 09, 2004** **Case Serial Number: 10/045221**	**From: Geoffrey St. Leger** **Location: EIC 2100** **PK2-4B30** **Phone: 308-7800** **geoffrey.stleger@uspto.gov**

Search Notes

Dear Examiner Holmes,

Attached please find the results of your search request for application 10/045221. I searched Dialog's foreign patent files, technical databases, product announcement files and general files; along with the Internet, ACM and IBM's TDBs.

Please let me know if you have any questions.

Regards,

Geoffrey St. Leger
4B30/308-7800

sira
Search and Information Resources Administration

STIC Search Results Feedback Form

EIC 2100

Questions about the scope or the results of the search? Contact ***the EIC searcher or contact*:**

Anne Hendrickson, EIC 2100 Team Leader
308-7831, CPK2-4B40

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 2133*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found**:*
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 CPK2-4B40

Search Results

Nothing Found

Your search for **[("h-infinity" or "h infinity" or h-infinity or h infinity or h <near/1> infinity) and (signal* <near/3> (separat* or divid* or division* or split* or breakup or breaking up or broken up) or blind <near/2> separat* or deconvol*)]** did not return any results.

You may revise it and try your search again below or click advanced search for more options.

("h-infinity" or "h infinity" or h-infinity or h infinity or h <near/1> infinity) and (signal* <near/3> (separat* or divid* or division* or split* or breakup or breaking up or broken up) or blind <near/2> separat* or deconvol*)

SEARCH [**Advanced Search**] [**Search Help/Tips**]

Complete Search Help and Tips

The following characters have specialized meaning:

Special Characters	Description
, ( ) [	These characters end a text token.
= > < !	These characters end a text token because they signify the start of a field operator. (! is special; != ends a token.)
` @ \Q < { [!	These characters signify the start of a delimited token. These are terminated by the end character associated with the start character.

Refine Search

Search Results -

Terms	Documents
"h infinity"	0

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Thursday, September 09, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=TDBD; PLUR=YES; OP=OR			
L4	"h infinity"	0	L4
L3	h infinity	3974	L3
L2	h-infinity	0	L2
L1	h adj infinity	0	L1

END OF SEARCH HISTORY

```
File   8:Ei Compendex(R) 1970-2004/Aug W5
         (c) 2004 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2004/Aug
         (c) 2004 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12
         (c) 2004 EBSCO Publishing
File  65:Inside Conferences 1993-2004/Sep W1
         (c) 2004 BLDSC all rts. reserv.
File   2:INSPEC 1969-2004/Aug W5
         (c) 2004 Institution of Electrical Engineers
File  94:JICST-EPlus 1985-2004/Aug W2
         (c)2004 Japan Science and Tech Corp(JST)
File   6:NTIS 1964-2004/Aug W4
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2004/Aug W5
         (c) 2004 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W1
         (c) 2004 Inst for Sci Info
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul
         (c) 2004 The HW Wilson Co.
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File  95:TEME-Technology & Management 1989-2004/Jun W1
         (c) 2004 FIZ TECHNIK
File  62:SPIN(R) 1975-2004/Jul W2
         (c) 2004 American Institute of Physics
File 239:Mathsci 1940-2004/Oct
         (c) 2004 American Mathematical Society

Set     Items   Description
S1      17476   H()INFINITY
S2      28056   SIGNAL? ?(3N)(SEPARAT? OR DIVID??? OR DIVISION? ? OR SPLIT-
             ???? OR BREAK???()UP)
S3       5931   BLIND(2W)SEPARAT?
S4      44616   DECONVOL?
S5          4   S1 AND S2
S6          3   S1 AND S3
S7          5   S5:S6
S8          4   RD (unique items)
S9         98   S1 AND S4
S10        70   RD (unique items)
S11      2078   AU=(SHIMIZU, J? OR SHIMIZU J?)
S12         7   S1 AND S11
S13         5   RD (unique items)
```

8/5/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06584643 E.I. No: EIP03447697822
Title: Adaptive blind source separation using a risk-sensitive criterion
Author: Shimizu, Junya
Corporate Source: IBM Research Tokyo Research Laboratory, Yamato-shi, 242-8502, Japan
Source: IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences v E86-A n 7 July 2003. p 1724-1731
Publication Year: 2003
CODEN: IFESEX ISSN: 0916-8508
Language: English
Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical); X; (Experimental)
Journal Announcement: 0311W1
Abstract: An adaptive **blind signal separation** filter is proposed using a risk-sensitive criterion framework. This criterion adopts an exponential type function. Hence, the proposed criterion varies the consideration weight of an adaptation quantity depending on errors in the estimates: the adaptation is accelerated when the estimation error is large, and unnecessary acceleration of the adaptation does not occur close to convergence. In addition, since the algorithm derivation process relates to an **H ** infinity** filtering, the derived algorithm has robustness to perturbations or estimation errors. Hence, this method converges faster than conventional least squares methods. Such effectiveness of the new algorithm is demonstrated by simulation. 11 Refs.
Descriptors: **Blind** source **separation** ; Adaptive algorithms; Perturbation techniques; Least squares approximations; Independent component analysis; Learning algorithms; Principal component analysis; Problem solving; Computer simulation
Identifiers: Risk-sensitive criterion; Estimation error
Classification Codes:
716.1 (Information & Communication Theory); 723.5 (Computer Applications); 921.6 (Numerical Methods)
716 (Electronic Equipment, Radar, Radio & Television); 723 (Computer Software, Data Handling & Applications); 921 (Applied Mathematics)
71 (ELECTRONICS & COMMUNICATION ENGINEERING); 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

8/5/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05988848 E.I. No: EIP02036827757
Title: Blind adaptive H ** infinity multiuser detection for CDMA systems with impulsive noise
Author: Chiang, C.-T.; Chang, A.-C.; Chen, Y.-H.
Corporate Source: Department of Electrical Engineering I-Shou University, Kaohsiung Country 840, Taiwan
Source: IEICE Transactions on Communications v E84-B n 11 November 2001. p 3060-3063
Publication Year: 2001
CODEN: ITRCEC ISSN: 0916-8516
Language: English
Document Type: JA; (Journal Article) Treatment: T; (Theoretical)
Journal Announcement: 0201W3
Abstract: A generalized sidelobe canceler (GSC) with and without subweight partition scheme was employed to develop blind adaptive **H ** infinity** multiuser detection. **H ** infinity** filtering was observed to be less sensitive to uncertainty in the exogenous signals statistics and dynamical model as the design criterion was based on the worst case disturbance. Adaptive **H ** infinity** algorithm with subweight approach showed the advantages of fast convergence speed, insensitivity of dynamic estimate error and suitability for arbitrary ambient noise over the

conventional **H** ** **infinity** and RLS-based adaptive algorithms. (Edited abstract) 4 Refs.

Descriptors: Code division multiple access; Impulse noise; **Blind** source **separation** ; Bit error rate; Communication channels (information theory); Equalizers; Signal filtering and prediction; Error analysis; Vectors; Matrix algebra; Correlation methods; Computational complexity; Adaptive algorithms

Identifiers: Multiuser detection

Classification Codes:

716.1 (Information & Communication Theory); 723.1 (Computer Programming); 713.5 (Other Electronic Circuits); 921.6 (Numerical Methods); 921.1 (Algebra); 922.2 (Mathematical Statistics); 721.1 (Computer Theory (Includes Formal Logic, Automata Theory, Switching Theory & Programming Theory)); 723.5 (Computer Applications)

716 (Electronic Equipment, Radar, Radio & Television); 723 (Computer Software, Data Handling & Applications); 713 (Electronic Circuits); 921 (Applied Mathematics); 922 (Statistical Methods); 721 (Computer Circuits & Logic Elements)

71 (ELECTRONICS & COMMUNICATION ENGINEERING); 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

8/5/3 (Item 3 from file: 8)

05959312 E.I. No: EIP01516770283

Title: Mixed H//2/ H // infinity filtering design in multirate transmultiplexer systems: LMI approach

Author: Chen, B.-S.; Tsai, C.-L.; Chen, Y.-F.

Corporate Source: Department of Electrical Engineering National Tsing Hua University, Hsinchu, Taiwan

Source: IEEE Transactions on Signal Processing v 49 n 11 November 2001. p 2693-2701

Publication Year: 2001

CODEN: ITPRED ISSN: 1053-587X

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 0112W4

Abstract: In this study, a mixed H//2/ **H** // **infinity** filter design is proposed for multirate transmultiplexer systems with dispersive channel and additive noise. First, a multirate state-space representation is introduced for the transmultiplexer with the consideration of channel dispersion. Then, the problem of signal reconstruction can be regarded as a state estimation problem. In order to design an efficient separating filterbank for transmultiplexer system with uncertain input signal and additive noise, the **H** // **infinity** filter is employed for robust signal reconstruction. The H//2 filter design is considered to be a suboptimal approach to achieve the optimal signal reconstruction in transmultiplexer system under unitary noise power. Finally, a mixed H//2/ **H** // **infinity** filter is proposed to achieve a better signal reconstruction performance in transmultiplexer systems. These design problems can be transformed to solving the eigenvalue problems (EVP) under some linear matrix inequality (LMI) constraint. The LMI Matlab toolbox can be applied to efficiently solve the EVP by convex optimization technique. 21 Refs.

Descriptors: Digital filters; Signal reconstruction; Multiplexing; Spurious **signal** noise; Code **division** multiple access; Eigenvalues and eigenfunctions; Matrix algebra; Optimization

Identifiers: Transmultiplexer systems

Classification Codes:

703.2 (Electric Filters); 716.1 (Information & Communication Theory); 921.1 (Algebra); 921.5 (Optimization Techniques)

703 (Electric Circuits); 716 (Electronic Equipment, Radar, Radio & Television); 921 (Applied Mathematics)

70 (ELECTRICAL ENGINEERING, GENERAL); 71 (ELECTRONICS & COMMUNICATION ENGINEERING); 92 (ENGINEERING MATHEMATICS)

8/5/4 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

04408931 Genuine Article#: TB225 Number of References: 18
Title: A MODIFIED CRITERION FOR OUTPUT-FEEDBACK TRACKING PROBLEMS WITH DETERMINISTIC AND STOCHASTIC SIGNALS
Author(s): HWANG MS; LEE FC
Corporate Source: NATL CHIAO TUNG UNIV,INST ELECTR/HSINCHU 30039//TAIWAN/; NATL CHIAO TUNG UNIV,INST CONTROL ENGN/HSINCHU//TAIWAN/
Journal: CONTROL-THEORY AND ADVANCED TECHNOLOGY, 1995, V10, N4 (SEP), P 1445-1457
ISSN: 0911-0704
Language: ENGLISH Document Type: NOTE
Geographic Location: TAIWAN
Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology & Applied Sciences
Journal Subject Category: INSTRUMENTS & INSTRUMENTATION; ENGINEERING, ELECTRICAL & ELECTRONIC; ROBOTICS & AUTOMATIC CONTROL
Abstract: A modified criterion for designing a linear time-invariant controller for an output feedback tracking problem is studied. This criterion takes the responses due to stochastic and deterministic signals into account. The advantage of this criterion is in its design potentiality to take care of both performances due to stochastic and deterministic signals in a time-invariant controller. Theoretical properties of this criterion include existence, uniqueness and closed-loop stability of the optimal solution. Moreover, this solution satisfies a separation property and incorporates a required internal model for the tracking requirement.
Descriptors--Author Keywords: OPTIMAL CONTROLLER ; OPTIMIZATION CRITERION ; STOCHASTIC **SIGNAL** ; DETERMINISTIC **SIGNAL** ; **SEPARATION** PRINCIPLE
Identifiers--KeyWords Plus: WIENER-HOPF DESIGN; MULTIVARIABLE CONTROL; SYSTEMS
Research Fronts: 93-1247 001 (UNCERTAIN SYSTEMS; **H - INFINITY** OPTIMAL CONTROLLER-DESIGN; ROBUST OUTPUT-FEEDBACK STABILIZATION)
Cited References:
FRANCIS BA, 1977, V15, P486, SIAM J CONTROL OPTIM
GRIMBLE MJ, 1979, V10, P1369, INT J SYST SCI
GRIMBLE MJ, 1978, V125, P1275, P I ELECTR ENG
HALPERN ME, 1988, V48, P1107, INT J CONTROL
HWANG MS, 1994, V10, P195, CONTR-THEOR ADV TECH
IFTAR A, 1990, V51, P1327, INT J CONTROL
JOSEPH PD, 1961, V80, P193, AIEE T APPL IND
KUCERA V, 1979, V15, P411, AUTOMATICA
KUCERA V, 1980, V25, P913, IEEE T AUTOMAT CONTR
KUCERA V, 1972, V17, P344, IEEE T AUTOMATIC CON
KWAKERNAAK H, 1972, LINEAR OPTIMAL CONTR
KWATNY HG, 1978, V23, P930, IEEE T AUTOMAT CONTR
LEE BK, 1991, V54, P943, INT J CONTROL
PAPOULIS A, 1984, PROBABILITY RANDOM V
PARK K, 1989, V34, P619, IEEE T AUTOMAT CONTR
SHAKED U, 1976, V24, P741, INT J CONTROL
YOULA DC, 1976, V21, P3, IEEE T AUTOMATIC CON
YOULA DC, 1976, V21, P319, IEEE TRANS AUTOMAT C

10/3/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06910015 E.I. No: EIP04268230277
Title: Recent trends in 2D blind deconvolution **for nondestructive evaluation**
Author: Chen, Chi-Hau; Qidwai, Uvais
Corporate Source: ECE Department University of Massachusetts, Dartmouth, MA, United States
Source: Tamkang Journal of Science and Engineering v 5 n 1 March 2002. p 49-58
Publication Year: 2002
ISSN: 1560-6686
Language: English

10/3/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06113291 E.I. No: EIP02347056802
Title: Two-dimensional H // infinity **-based blind** deconvolution **for image enhancement with applications to ultrasonic NDE**
Author: Qidwai, Uvais; Chen, C.H.
Corporate Source: Elec. Eng. and Comp. Sci. Department Tulane University, New Orleans, LA 70118-5674, United States
Source: IEEE Signal Processing Letters v 9 n 5 May 2002. p 157-159
Publication Year: 2002
CODEN: ISPLEM ISSN: 1070-9908
Language: English

10/3/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05921666 E.I. No: EIP01385484625
Title: H // infinity deconvolution **filter and its application to ultrasonic nondestructive evaluation of materials**
Author: Hanshaw, Timothy C.; Anderson, Michael J.; Hsu, Chin S.
Corporate Source: Washington State Univ, Pullman, WA, United States
Source: ISA Transactions v 38 n 4 1999. p 323-335
Publication Year: 1999
CODEN: ISATAZ ISSN: 0019-0578
Language: English

10/3/4 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05920592 E.I. No: EIP01385576016
Title: Inverse filtering and deconvolution
Author: Saberi, Ali; Stoorvogel, Anton A.; Sannuti, Peddapullaiah
Corporate Source: Washington State Univ, Pullman, WA, United States
Source: International Journal of Robust and Nonlinear Control v 11 n 2 2001. p 131-156
Publication Year: 2001
CODEN: IJRCEA ISSN: 1049-8923
Language: English

10/3/5 (Item 5 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05914108 E.I. No: EIP01436694882

Title: A reduced order H // infinity deconvolution filter design using bounded real lemma
Author: Rho, H.; Hsu, C.S.
Corporate Source: Sch. of Elec. Eng. and Comp. Sci. Washington State University, Pullman, WA 99164-2752, United States
Conference Title: 2001 American Control Conference
Conference Location: Arlington, VA, United States Conference Date: 20010625-20010627
E.I. Conference No.: 58513
Source: Proceedings of the American Control Conference v 6 2001. p 4234-4240 (IEEE cat n 01CH37148)
Publication Year: 2001
CODEN: PRACEO ISSN: 0743-1619
Language: English

10/3/6 (Item 6 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05913040 E.I. No: EIP01426692665
Title: Mixed H//2/ H // infinity deconvolution of uncertain periodic FIR channels
Author: Wang, S.; Xie, L.; Zhang, C.
Corporate Source: Dept. of Elec./Electron. Engineering University of Melbourne, Parkville, Vic. 3010, Australia
Source: Signal Processing v 81 n 10 October 2001. p 2089-2103
Publication Year: 2001
CODEN: SPRODR ISSN: 0165-1684
Language: English

10/3/7 (Item 7 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05766173 E.I. No: EIP01015483130
Title: Game theory approach to H // infinity deconvolution filter design
Author: Rho, Hian; Hsu, Chin S.
Corporate Source: Washington State Univ, Pullman, WA, USA
Conference Title: Proceedings of the 1999 American Control Conference (99ACC)
Conference Location: San Diego, CA, USA Conference Date: 20990602-20990604
E.I. Conference No.: 55827
Source: Proceedings of the American Control Conference v 4 1999. IEEE, Piscataway, NJ, USA,99CB36251. p 2891-2895
Publication Year: 1999
CODEN: PRACEO ISSN: 0743-1619
Language: English

10/3/8 (Item 8 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05760576 E.I. No: EIP01015478855
Title: Genetic algorithm approach to fixed-order mixed H//2/H//I//N//F optimal deconvolution filter designs
Author: Hung, Jui-Chung; Chen, Bor-Sen
Corporate Source: Natl Tsing Hua Univ, Hsinchu, Taiwan
Source: IEEE Transactions on Signal Processing v 48 n 12 Dec 2000. p 3451-3461
Publication Year: 2000
CODEN: ITPRED ISSN: 1053-587X
Language: English

10/3/9 (Item 9 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05741443 E.I. No: EIP00125454850
Title: Robust H // infinity deconvolution and its application to fault detection
Author: Yaesh, I.; Shaked, U.
Corporate Source: Israel Military Industries, Ltd, Ramat-Hasharon, Isr
Source: Journal of Guidance, Control, and Dynamics v 23 n 6 Nov 2000. p 1001-1012
Publication Year: 2000
CODEN: JGCODS ISSN: 0731-5090
Language: English

10/3/10 (Item 10 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05694537 E.I. No: EIP00115385761
Title: H // infinity smoothing
Author: Blanco, E.; Neveux, Ph.; Thomas, G.
Corporate Source: Universite Claude Bernard Lyon I, Villeurbanne, Fr
Conference Title: 2000 IEEE Interntional Conference on Acoustics, Speech, and Signal Processing
Conference Location: Istanbul, Turkey Conference Date: 20000605-20000609
E.I. Conference No.: 57489
Source: ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings v 2 2000. IEEE, Piscataway, NJ, USA,00CB37100. p 713-716
Publication Year: 2000
CODEN: IPRODJ ISSN: 0736-7791
Language: English

10/3/11 (Item 11 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05685878 E.I. No: EIP00105371997
Title: Envelope-constrained H // infinity filter design: An LMI optimization approach
Author: Tan, Zhiqiang; Soh, Yeng Chai; Xie, Lihua
Corporate Source: Nanyang Technological Univ, Singapore, Singapore
Source: IEEE Transactions on Signal Processing v 48 n 10 Oct 2000. p 2960-2963
Publication Year: 2000
CODEN: ITPRED ISSN: 1053-587X
Language: English

10/3/12 (Item 12 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05683754 E.I. No: EIP00105376301
Title: H // infinity deconvolution of periodic channels
Author: Xie, Lihua; Wang, Song; Du, Chunling; Zhang, Cishen
Corporate Source: Nanyang Technological Univ, Singapore, Singapore
Source: Signal Processing v 80 n 11 Nov 2000. p 2365-2378
Publication Year: 2000
CODEN: SPRODR ISSN: 0165-1684
Language: English

10/3/13 (Item 13 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05534523 E.I. No: EIP00045139350
Title: H // infinity deconvolution filtering, prediction, and smoothing: a krein space poloynominal approach
Author: Zhang, Huanshui; Xie, Lihua; Soh, Yeng Chai
Corporate Source: Nanyang Technological Univ, Singapore
Source: IEEE Transactions on Signal Processing v 48 n 3 2000. p 888-892
Publication Year: 2000
CODEN: ITPRED ISSN: 1053-587X
Language: English

10/3/14 (Item 14 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05512108 E.I. No: EIP00035102184
Title: Fixed-order H//2 and H // infinity optimal deconvolution filter designs
Author: Chen, Bor-Sen; Hung, Jui-Chung
Corporate Source: Natl Tsing-Hua Univ, Hsin-Chu, Taiwan
Source: Signal Processing v 80 n 2 Feb 2000. p 311-331
Publication Year: 2000
CODEN: SPRODR ISSN: 0165-1684
Language: English

10/3/15 (Item 15 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05099493 E.I. No: EIP98084345280
Title: Myopic deconvolution combining Kalman filter and tracking control
Author: Sarri, P.; Thomas, G.; Sekko, E.; Neveux, P.
Corporate Source: I.N.S.A. de Lyon, Villeurbanne, Fr
Conference Title: Proceedings of the 1998 IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP. Part 3 (of 6)
Conference Location: Seattle, WA, USA Conference Date: 19980512-19980515
E.I. Conference No.: 48801
Source: ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings v 3 1998. IEEE, Piscataway, NJ, USA,98CH36181. p 1833-1836
Publication Year: 1998
CODEN: IPRODJ ISSN: 0736-7791
Language: English

10/3/16 (Item 16 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05097196 E.I. No: EIP98084350128
Title: Prediction, filtering, smoothing and deconvolution in a discrete H ** infinity setting: a game theory approach
Author: Kim, Hansil; Jalali, Ali A.; Sims, Craig S.; Kim, Young Chul
Corporate Source: Univ of Ulsan, Ulsan, S Korea
Source: International Journal of Control v 70 n 6 Aug 1998. p 841-857
Publication Year: 1998
CODEN: IJCOAZ ISSN: 0020-7179
Language: English

10/3/17 (Item 17 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

04839796 E.I. No: EIP97103855766
Title: H // infinity **inferential filtering, prediction and smoothing problems**
Author: Grimble, M.J.
Corporate Source: Univ of Strathclyde, Glasgow, UK
Source: Signal Processing v 60 n 3 Aug 1997. p 289-304
Publication Year: 1997
CODEN: SPRODR ISSN: 0165-1684
Language: English

10/3/18 (Item 18 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04646614 E.I. No: EIP97033566985
Title: H // infinity deconvolution **filter design and its application in image restoration**
Author: Yu, Xianggang; Hsu, Chin S.; Bamberger, Roberto H.
Corporate Source: Washington State Univ, Pullman, WA, USA
Conference Title: Proceedings of the 35th IEEE Conference on Decision and Control
Conference Location: Kobe, Jpn Conference Date: 19961211-19961213
E.I. Conference No.: 46157
Source: Proceedings of the IEEE Conference on Decision and Control v 4 1996.,96CH35989. p 4802-4807
Publication Year: 1996
CODEN: PCDCDZ
Language: English

10/3/19 (Item 19 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04376750 E.I. No: EIP96043121915
Title: H // infinity **optimal multichannel linear** deconvolution **filters, predictors and smoothers**
Author: Grimble, M.J.
Corporate Source: Univ of Strathclyde, Glasgow, UK
Source: International Journal of Control v 63 n 3 Feb 1996. p 519-533
Publication Year: 1996
CODEN: IJCOAZ ISSN: 0020-7179
Language: English

10/3/20 (Item 20 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04019776 E.I. No: EIP94122486397
Title: Reduced order H // infinity **filtering**
Author: Bettayeb, Maamar; Kavranoglu, Davut
Corporate Source: King Fahd Univ of Petroleum and Minerals, Dhahran, Saudi Arabia
Conference Title: Proceedings of the 1994 American Control Conference. Part 2 (of 3)
Conference Location: Baltimore, MD, USA Conference Date: 19940629-19940701
E.I. Conference No.: 21446
Source: Proceedings of the American Control Conference v 2 1994. American Automatic Control Council, Green Valley, AZ, USA,94CH3390-2. p 1884-1888
Publication Year: 1994
CODEN: PRACEO ISSN: 0743-1619
Language: English

10/3/21 (Item 21 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

03757240 E.I. No: EIP93121137461
Title: Filtering, smoothing and deconvolution **in a discrete** H ** infinity **setting: a game theory approach**
Author: Jalali, Ali A.; Kim, Hasnsil; Sims, Craig S.
Corporate Source: West Virginia Univ, Morgantown, WV, USA
Conference Title: Proceedings of the 1993 American Control Conference Part 2 (of 3)
Conference Location: San Francisco, CA, USA Conference Date: 19930602-19930604
E.I. Conference No.: 18910
Source: American Control Conference 1993. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA,(IEEE cat n 93CH3225-0). p 1057-1061
Publication Year: 1993
ISBN: 0-7803-0861-1
Language: English

10/3/22 (Item 22 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

03585615 E.I. Monthly No: EI9304053026
Title: A frequency domain approach to the problems of H // infinity **-minimum error state estimation and** deconvolution .
Author: Shaked, Uri; Theodor, Yahali
Source: IEEE Transactions on Signal Processing v 40 n 12 Dec 1992 p 3001-3011
Publication Year: 1992
CODEN: ITPRED ISSN: 1053-587X
Language: English

10/3/23 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

01847750 ORDER NO: AADAA-I3023605
Reduced order H - infinity deconvolution **filter design and applications**
Author: Rho, Hian
Degree: Ph.D.
Year: 2001
Corporate Source/Institution: Washington State University (0251)
Source: VOLUME 62/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 3742. 86 PAGES
ISBN: 0-493-35311-9

10/3/24 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

01521034 ORDER NO: AAD96-40205
REDUCED-ORDER H - INFINITY **COMPENSATOR AND FILTER DESIGN FOR LINEAR MULTIVARIABLE SYSTEMS (CONTROLLER)**
Author: YU, XIANGGANG
Degree: PH.D.
Year: 1995
Corporate Source/Institution: WASHINGTON STATE UNIVERSITY (0251)
Source: VOLUME 57/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 4621. 122 PAGES

10/3/25 (Item 1 from file: 65)
DIALOG(R)File 65:Inside Conferences

02089608 INSIDE CONFERENCE ITEM ID: CN021894946
Constrained Deconvolution : **a Game Theory Approach in an** H . infinity . **Setting**
Sekko, E.; Thomas, G.
CONFERENCE: European signal processing conference-8th
SIGNAL PROCESSING -EUROPEAN CONFERENCE-, 1996; VOL 1 P: 703-705
Edizioni LINT Trieste, 1996
ISBN: 8886179839
LANGUAGE: English DOCUMENT TYPE: Conference Papers
CONFERENCE EDITOR(S): Ramponi, G.
CONFERENCE SPONSOR: European Association for Signal Processing
CONFERENCE LOCATION: Trieste, Italy
CONFERENCE DATE: Sep 1996 (199609) (199609)
NOTE:
Described as proceedings. Also known as EUSIPCO-96

10/3/26 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

7928560 INSPEC Abstract Number: A2004-10-0130C-024, B2004-05-0100-050, C2004-05-0000-029
Title: 2002 7th International Conference on Control, Automation, Robotics and Vision (IEEE Cat. No.02EX649)
Part vol.1
Publisher: Nanyang Technological Univ, Singapore
Publication Date: 2002 Country of Publication: Singapore 3 vol.1718 pp.
ISBN: 981 04 8364 3 Material Identity Number: XX-2002-03489
Conference Title: ICARV 2002: The Seventh International Conference on Control, Automation, Robotics and Vision
Conference Date: 2-5 Dec. 2002 Conference Location: Singapore
Language: English
Subfile: A B C E

10/3/27 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC

6534436 INSPEC Abstract Number: B2000-04-6140B-082, C2000-04-5260-039
Title: H infinity deconvolution **filtering, prediction, and smoothing: a Krein space polynomial approach**
Author(s): Huanshui Zhang; Lihua Xie; Yeng Chui Soh
Author Affiliation: Sch. of Electr. & Electron. Eng., Nanyang Technol. Inst., Singapore
Journal: IEEE Transactions on Signal Processing vol.48, no.3 p. 888-92
Publisher: IEEE,
Publication Date: March 2000 Country of Publication: USA
CODEN: ITPRED ISSN: 1053-587X
SICI: 1053-587X(200003)48:3L.888:DFPS;1-K
Material Identity Number: O649-2000-003
U.S. Copyright Clearance Center Code: 1053-587X/2000/$10.00
Language: English
Subfile: B C

10/3/28 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

14453845 PASCAL No.: 00-0113277
QUELQUES APPLICATIONS DU FILTRAGE OPTIMAL A LA DECONVOLUTION
(SOME APPLICATIONS OF THE OPTIMAL FILTER TO THE DECONVOLUTION)
SEKKO Edgard-Opportum; THOMAS Edgard, dir
Universite de Lyon 1, Villeurbanne, Francee
Univ.: Universite de Lyon 1. Villeurbanne. FRA Degree: Th. doct.
1998-02; 1998 145 p.
Language: French Summary Language: French; English

10/3/29 (Item 1 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09746675 Genuine Article#: AT081 No. References: 53
Title: A SCHUR TYPE MATRIX EXTENSION PROBLEM, .3.
Author(s): FRITZSCHE B; KIRSTEIN B
Corporate Source: KARL MARX UNIV,SEKT MATH,KARL MARX PL/DDR-7010 LEIPZIG//GER DEM REP/
Journal: MATHEMATISCHE NACHRICHTEN, 1989, V143, P227-247
Language: ENGLISH Document Type: ARTICLE

10/3/30 (Item 2 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09500405 Genuine Article#: U7698 No. References: 7
Title: EXTENSION OF THE THEOREMS OF CARATHEODORY-TOEPLITZ-SCHUR AND PICK
Author(s): TAKAHASHI S
Corporate Source: NARA WOMENS UNIV/NARA 630//JAPAN/
Journal: PACIFIC JOURNAL OF MATHEMATICS, 1989, V138, N2, P391-399
Language: ENGLISH Document Type: ARTICLE

10/3/31 (Item 3 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09416815 Genuine Article#: T7966 No. References: 48
Title: MOMENT THEORY, ORTHOGONAL POLYNOMIALS, QUADRATURE, AND CONTINUED FRACTIONS ASSOCIATED WITH THE UNIT-CIRCLE
Author(s): JONES WB; NJASTAD O; THRON WJ
Corporate Source: UNIV COLORADO,DEPT MATH/BOULDER//CO/80309; UNIV TRONDHEIM,DEPT MATH/N-7034 TRONDHEIM//NORWAY/
Journal: BULLETIN OF THE LONDON MATHEMATICAL SOCIETY, 1989, V21, MAR, P 113-152
Language: ENGLISH Document Type: ARTICLE

10/3/32 (Item 4 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09390317 Genuine Article#: T8543 No. References: 28
Title: PRINCIPAL COMPONENTS ALGORITHMS FOR ARMA SPECTRUM ESTIMATION
Author(s): ARUN KS
Corporate Source: UNIV ILLINOIS,COORDINATED SCI LAB/URBANA//IL/61801
Journal: IEEE TRANSACTIONS ON ACOUSTICS SPEECH AND SIGNAL PROCESSING, 1989 , V37, N4, P566-571
Language: ENGLISH Document Type: LETTER

10/3/33 (Item 5 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09317679 Genuine Article#: T2755 No. References: 33
Title: MODEL REDUCTIONS OF HIGH-ORDER ESTIMATED MODELS - THE ASYMPTOTIC ML APPROACH
Author(s): WAHLBERG B
Corporate Source: LINKOPING UNIV,DEPT ELECT ENGN/S-58183 LINKOPING//SWEDEN/
Journal: INTERNATIONAL JOURNAL OF CONTROL, 1989, V49, N1, P169-192
Language: ENGLISH Document Type: ARTICLE

10/3/34 (Item 6 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09269812 Genuine Article#: R9385 No. References: 28
Title: TOEPLITZ EQUATIONS BY CONJUGATE GRADIENTS WITH CIRCULANT PRECONDITIONER
Author(s): CHAN RH; STRANG G
Corporate Source: UNIV HONG KONG,DEPT MATH/HONG KONG//HONG KONG/; MIT,DEPT MATH/CAMBRIDGE//MA/02139
Journal: SIAM JOURNAL ON SCIENTIFIC AND STATISTICAL COMPUTING, 1989, V10, N1, P104-119
Language: ENGLISH Document Type: ARTICLE

10/3/35 (Item 7 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

09268640 Genuine Article#: R8973 No. References: 24
Title: OPTIMAL DECONVOLUTION **BASED ON POLYNOMIAL METHODS**
Author(s): AHLEN A; STERNAD M
Corporate Source: UNIV UPPSALA,DEPT TECHNOL,AUTOMAT CONTROL & SYST ANAL GRP/S-75121 UPPSALA//SWEDEN/
Journal: IEEE TRANSACTIONS ON ACOUSTICS SPEECH AND SIGNAL PROCESSING, 1989, V37, N2, P217-226
Language: ENGLISH Document Type: ARTICLE

10/3/36 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

12351837 Genuine Article#: 755WM No. References: 17
Title: On discrete-time H - infinity **fixed-lag smoothing**
Author(s): Bolzern P (REPRINT) ; Colaneri P; De Nicolao G
Corporate Source: Politecn Milan,Dipartimento Elettron & Informat,I-20133 Milan//Italy/ (REPRINT); Politecn Milan,Dipartimento Elettron & Informat,I-20133 Milan//Italy/; Univ Pavia,Dipartimento Informat & Sistemist,I-27100 Pavia//Italy/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 2004, V52, N1 (JAN), P 132-141
ISSN: 1053-587X Publication date: 20040100
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 445 HOES LANE, PISCATAWAY, NJ 08855 USA
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/37 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

10945978 Genuine Article#: 587DY No. References: 29
Title: H - infinity deconvolution **filtering of 2-D digital systems**
Author(s): Xie LH (REPRINT) ; Du CL; Zhang CS; Soh YC
Corporate Source: Nanyang Technol Univ,Sch Elect & Elect Engn,Singapore 2263//Singapore/ (REPRINT); Nanyang Technol Univ,Sch Elect & Elect

Engn,Singapore 2263//Singapore/; Data Storage Inst,MMS Grp,Singapore//Singapore/; Univ Melbourne,Dept Elect & Elect Engn,Parkville/Vic 3052/Australia/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 2002, V50, N9 (SEP), P 2319-2332
ISSN: 1053-587X Publication date: 20020900
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394 USA
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/38 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

10788157 Genuine Article#: BU60P No. References: 0
Title: H - infinity deconvolution **filtering of 2-D digital systems**
Author(s): ANONYMOUS
, 2002, V278, P99-114
ISSN: 0170-8643 Publication date: 20020000
Publisher: SPRINGER-VERLAG BERLIN, HEIDELBERGER PLATZ 3, D-14197 BERLIN, GERMANYH(INFINITY) CONTROL AND FILTERING OF TWO-DIMENSIONAL SYSTEMS
Series: LECTURE NOTES IN CONTROL AND INFORMATION SCIENCES
Language: English Document Type: ARTICLE

10/3/39 (Item 4 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

09880703 Genuine Article#: 459VU No. References: 18
Title: Explicit formulas for LMI-based H-2 filtering and deconvolution
Author(s): Cuzzola FA; Ferrante A (REPRINT)
Corporate Source: Politecn Milan,Dipartimento Elettron & Informat,Pza L da Vinci 32/I-20133 Milan//Italy/ (REPRINT); Politecn Milan,Dipartimento Elettron & Informat,I-20133 Milan//Italy/
Journal: AUTOMATICA, 2001, V37, N9 (SEP), P1443-1449
ISSN: 0005-1098 Publication date: 20010900
Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/40 (Item 5 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

09830915 Genuine Article#: 453HC No. References: 23
Title: Discrete J-spectral factorization
Author(s): Zhang HS; Xie LH (REPRINT) ; Soh YC
Corporate Source: Nanyang Technol Univ,Sch Elect & Elect Engn,BLK S2,Nayang Ave/Singapore 639798//Singapore/ (REPRINT); Nanyang Technol Univ,Sch Elect & Elect Engn,Singapore 639798//Singapore/
Journal: SYSTEMS & CONTROL LETTERS, 2001, V43, N4 (JUL 23), P275-286
ISSN: 0167-6911 Publication date: 20010723
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/41 (Item 6 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

09277571 Genuine Article#: 387XE No. References: 58
Title: Unconstrained H - infinity **predictive control with** H - infinity **prediction: single-input-single-output case**
Author(s): Pellegrinetti G; Zhao HP; Bentsman J (REPRINT)
Corporate Source: Univ Illinois,Dept Mech & Ind Engn,140 Mech Engn

Bldg,MC244,1206 W Green St/Urbana//IL/61801 (REPRINT); Univ Illinois,Dept Mech & Ind Engn,Urbana//IL/61801
Journal: INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, 2000, V10, N15 (DEC 30), P1279-1316
ISSN: 1049-8923 Publication date: 20001230
Publisher: JOHN WILEY & SONS LTD, BAFFINS LANE CHICHESTER, W SUSSEX PO19 1UD, ENGLAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/42 (Item 7 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

09197019 Genuine Article#: 378AT No. References: 31
Title: Genetic algorithm approach to fixed-order mixed H-2/ H - infinity **optimal** deconvolution **filter designs**
Author(s): Hung JC (REPRINT) ; Chen BS
Corporate Source: NATL TSING HUA UNIV,DEPT ELECT ENGN/HSINCHU//TAIWAN/ (REPRINT)
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 2000, V48, N12 (DEC), P 3451-3461
ISSN: 1053-587X Publication date: 20001200
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/43 (Item 8 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

08384823 Genuine Article#: 279RM No. References: 17
Title: Envelope-constrained H - infinity **FIR filter design**
Author(s): Tan ZQ (REPRINT) ; Soh YC; Xie LH
Corporate Source: NANYANG TECHNOL UNIV,SCH ELECT & ELECT ENGN, NANYANG AVE/SINGAPORE 63979//SINGAPORE/ (REPRINT)
Journal: IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-ANALOG AND DIGITAL SIGNAL PROCESSING, 2000, V47, N1 (JAN), P79-82
ISSN: 1057-7130 Publication date: 20000100
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/44 (Item 9 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

06184988 Genuine Article#: YA483 No. References: 24
Title: Magnitude response peak detection and control using balanced model reduction and leakage to a target
Author(s): Benson KD (REPRINT) ; Sethares WA
Corporate Source: TELLABS OPERAT INC,/MISHAWAKA//IN/46545 (REPRINT); UNIV WISCONSIN,DEPT ELECT & COMP ENGN/MADISON//WI/53706
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1997, V45, N10 (OCT), P 2442-2453
ISSN: 1053-587X Publication date: 19971000
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/45 (Item 10 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

06169026 Genuine Article#: XZ476 No. References: 36

Title: Reduced-order H - infinity **and L-2-L-infinity filtering via linear matrix inequalities**
Author(s): Grigoriadis KM (REPRINT) ; Watson JT
Corporate Source: UNIV HOUSTON,DEPT MECH ENGN/HOUSTON//TX/77204 (REPRINT)
Journal: IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, 1997, V33, N4 (OCT), P1326-1338
ISSN: 0018-9251 Publication date: 19971000
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/46 (Item 11 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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05980998 Genuine Article#: XL949 No. References: 14
Title: A numerical solution to the matrix H-2/ H - infinity **optimal control problem**
Author(s): Halikias GD (REPRINT) ; Jaimoukha IM; Wilson DA
Corporate Source: UNIV LEEDS,DEPT ELECT & ELECT ENGN/LEEDS LS2 9JT/W YORKSHIRE/ENGLAND/ (REPRINT); UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED,INTERDISCIPLINARY RES CTR PROC SYST ENGN/LONDON SW7 2BY//ENGLAND/; UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED,DEPT ELECT & ELECT ENGN/LONDON SW7 2BY//ENGLAND/
Journal: INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, 1997, V7, N7 (JUL), P711-726
ISSN: 1049-8923 Publication date: 19970700
Publisher: JOHN WILEY & SONS LTD, BAFFINS LANE CHICHESTER, W SUSSEX, ENGLAND PO19 1UD
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/47 (Item 12 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

05748409 Genuine Article#: WV404 No. References: 55
Title: Stationarity conditions for the L-2 error surface of the generalized orthonormal basis functions lattice filter
Author(s): Silva TOE (REPRINT)
Corporate Source: INESC,DEPT ELECT & TELECOMMUN, UNIV AVEIRO/P-3810 AVEIRO//PORTUGAL/ (REPRINT)
Journal: SIGNAL PROCESSING, 1997, V56, N3 (FEB), P233-253
ISSN: 0165-1684 Publication date: 19970200
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/48 (Item 13 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

05637211 Genuine Article#: WM482 No. References: 27
Title: Deconvolution **filter design via l(1) optimization technique**
Author(s): Peng SC (REPRINT) ; Chen BS
Corporate Source: NATL YUN LIN POLYTECH INST,DEPT ELECT ENGN/YUN LIN//TAIWAN/ (REPRINT); NATL TSING HUA UNIV,DEPT ELECT ENGN, CONTROL & SIGNAL PROC LAB/HSINCHU 30043//TAIWAN/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1997, V45, N3 (MAR), P 736-746
ISSN: 1053-587X Publication date: 19970300
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/49 (Item 14 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

05021333 Genuine Article#: UZ880 No. References: 22
Title: AN EQUALIZER DESIGN FOR NONMINIMUM-PHASE CHANNEL VIA 2-BLOCK H - INFINITY OPTIMIZATION TECHNIQUE
Author(s): PENG SC
Corporate Source: NATL YUN LIN POLYTECH INST,DEPT ELECT ENGN,64 WUN HUA RD HUW EI/YUN LIN//TAIWAN/
Journal: SIGNAL PROCESSING, 1996, V51, N1 (MAY), P1-13
ISSN: 0165-1684
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/50 (Item 15 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

04871226 Genuine Article#: UN484 No. References: 17
Title: ROBUST FILTER DESIGN FOR UNCERTAIN SYSTEMS DEFINED BY BOTH HARD AND SOFT BOUNDS
Author(s): GRIMBLE MJ
Corporate Source: UNIV STRATHCLYDE,IND CONTROL CTR/GLASGOW/LANARK/SCOTLAND/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1996, V44, N5 (MAY), P 1063-1071
ISSN: 1053-587X
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/51 (Item 16 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

04408937 Genuine Article#: TB225 No. References: 27
Title: MIXED H-2-NORM SENSITIVITY MINIMIZATION IN THE DFT DOMAIN FOR CONTROL-SYSTEM
Author(s): YANG JS; ZERVAKIS ME
Corporate Source: UNIV MINNESOTA,DEPT ELECT & COMP ENGN/DULUTH//MN/55812
Journal: CONTROL-THEORY AND ADVANCED TECHNOLOGY, 1995, V10, N4 (SEP), P 1515-1530
ISSN: 0911-0704
Language: ENGLISH Document Type: NOTE (Abstract Available)

10/3/52 (Item 17 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

04132084 Genuine Article#: RG558 No. References: 20
Title: MULTICHANNEL OPTIMAL LINEAR DECONVOLUTION FILTERS AND STRIP THICKNESS ESTIMATION FROM GAUGE MEASUREMENTS
Author(s): GRIMBLE MJ
Corporate Source: UNIV STRATHCLYDE,CTR IND CONTROL,GRAHAM HILLS BLDG,50 GEORGE ST/GLASGOW G1 1QE/LANARK/SCOTLAND/
Journal: JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL-TRANSACTIONS OF THE ASME, 1995, V117, N2 (JUN), P165-174
ISSN: 0022-0434
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/53 (Item 18 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

03993413 Genuine Article#: QX511 No. References: 36
Title: ROLE OF ANTICAUSAL INVERSES IN MULTIRATE FILTER-BANKS .1. SYSTEM-THEORETIC FUNDAMENTALS
Author(s): VAIDYANATHAN PP; CHEN TH

Corporate Source: CALTECH,DEPT ELECT ENGN/PASADENA//CA/91125
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1995, V43, N5 (MAY), P 1090-1102
ISSN: 1053-587X
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/54 (Item 19 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

03535038 Genuine Article#: PK735 No. References: 12
Title: SINGLE-CHANNEL DIGITAL-FILTER DESIGN FOR SEISMIC APPLICATIONS
Author(s): LINVILLE AF
Corporate Source: MOBIL RES & DEV CORP,MOBIL EXPLORAT & PROD TECHCTR,3000 PEGASUS PK DR/DALLAS//TX/75247
Journal: GEOPHYSICS, 1994, V59, N10 (OCT), P1584-1592
ISSN: 0016-8033
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/55 (Item 20 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

03400435 Genuine Article#: PB601 No. References: 22
Title: H2 INFERENTIAL FILTERING, PREDICTION, AND SMOOTHING WITH APPLICATION TO ROLLING-MILL GAUGE ESTIMATION
Author(s): GRIMBLE MJ
Corporate Source: UNIV STRATHCLYDE,CTR IND CONTROL/GLASGOW G1 1QE//SCOTLAND/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1994, V42, N8 (AUG), P 2078-2093
ISSN: 1053-587X
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/56 (Item 21 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

03389896 Genuine Article#: PB289 No. References: 10
Title: NMSE DECONVOLUTION **VIA POLYNOMIAL METHODS AND ITS DUAL LQG REGULATION**
Author(s): CHISCI L; MOSCA E
Corporate Source: UNIV FLORENCE,DIPARTIMENTO SIST & INFORMAT,VIA SANTA MARTA 3/I-50139 FLORENCE//ITALY/; UNIV FLORENCE,DIPARTIMENTO SIST & INFORMAT,VIA SANTA MARTA 3/I-50139 FLORENCE//ITALY/
Journal: AUTOMATICA, 1994, V30, N7 (JUL), P1197-1201
ISSN: 0005-1098
Language: ENGLISH Document Type: NOTE (Abstract Available)

10/3/57 (Item 22 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

02734636 Genuine Article#: LZ723 No. References: 25
Title: APPLICATIONS OF THE SCHUR-ALGORITHM TO MIXED H-2 AND H (INFINITY) NEHARI PROBLEMS
Author(s): FRAZHO AE; KHERAT SM
Corporate Source: PURDUE UNIV,SCH AERONAUT & ASTRONAUT/W LAFAYETTE//IN/47907
Journal: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, 1993, V178, N2 (SEP 15), P488-508
ISSN: 0022-247X
Language: ENGLISH Document Type: ARTICLE

10/3/58 (Item 23 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

02225479 Genuine Article#: KL950 No. References: 21
Title: FEEDFORWARD CONTROL IS DUAL TO DECONVOLUTION
Author(s): BERNHARDSSON B; STERNAD M
Corporate Source: LUND INST TECHNOL,DEPT AUTOMAT CONTROL,POB 118/S-22100 LUND//SWEDEN/; UPPSALA UNIV,DEPT TECHNOL,SYST & CONTROL GRP/S-75103 UPPSALA//SWEDEN/
Journal: INTERNATIONAL JOURNAL OF CONTROL, 1993, V57, N2 (FEB), P393-405
ISSN: 0020-7179
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/59 (Item 24 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

02124576 Genuine Article#: KC930 No. References: 12
Title: OPTIMAL OFF-LINE SIGNAL-PROCESSING
Author(s): TSYPKIN YZ; AVEDYAN ED
Corporate Source: MOSCOW CONTROL SCI INST/MOSCOW 117806//USSR/
Journal: COMPUTERS & ELECTRICAL ENGINEERING, 1993, V19, N1 (JAN), P41-46
ISSN: 0045-7906
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/60 (Item 25 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

01327741 Genuine Article#: GP757 No. References: 56
Title: AN OVERVIEW OF MODERN CONTROL STRATEGIES FOR OPTIMIZING THERMAL DESALINATION PLANTS
Author(s): ALGOBAISI DMK; BARAKZAI AS; ELNASHAR AM
Corporate Source: WATER & ELECT DEPT/ABU DHABI//U ARAB EMIRATES/
Journal: DESALINATION, 1991, V84, N1-3, P3-43
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/61 (Item 26 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

01294102 Genuine Article#: GL708 No. References: 47
Title: WIENER FILTER DESIGN USING POLYNOMIAL EQUATIONS
Author(s): AHLEN A; STERNAD M
Corporate Source: UPPSALA UNIV,DEPT TECHNOL,AUTOMAT CONTROL & SYST ANAL GRP/S-75103 UPPSALA//SWEDEN/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1991, V39, N11, P2387-2399
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/62 (Item 27 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

01091915 Genuine Article#: FV832 No. References: 51
Title: ON IDENTIFICATION OF STABLE SYSTEMS AND OPTIMAL APPROXIMATION
Author(s): MAKILA PM
Corporate Source: SWEDISH UNIV TURKU,DEPT CHEM ENGN/SF-20500 TURKU//FINLAND/
Journal: AUTOMATICA, 1991, V27, N4, P663-676
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/63 (Item 28 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

01067309 Genuine Article#: FT708 No. References: 73
Title: LIKELIHOOD AND COST AS PATH-INTEGRALS
Author(s): WHITTLE P
Corporate Source: UNIV CAMBRIDGE,STAT LAB,16 MILL LANE/CAMBRIDGE CB2 1SB//ENGLAND/
Journal: JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-METHODOLOGICAL, 1991, V53, N3, P505-538
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/64 (Item 29 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

00995976 Genuine Article#: FM043 No. References: 138
Title: IMPLICIT LINEAR-SYSTEMS
Author(s): APLEVICH JD
Corporate Source: UNIV WATERLOO,DEPT ELECT ENGN/WATERLOO N2L 3G1/ONTARIO/CANADA/
Journal: LECTURE NOTES IN CONTROL AND INFORMATION SCIENCES, 1991, V152, P1&
Language: ENGLISH Document Type: ARTICLE

10/3/65 (Item 30 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

00907139 Genuine Article#: FF068 No. References: 243
Title: INVERSION OF POTENTIAL-FIELD DATA
Author(s): MOHARIR PS
Corporate Source: NATL GEOPHYS RES INST/HYDERABAD 500007/ANDHRA PRADESH/INDIA/
Journal: PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCES-EARTH AND PLANETARY SCIENCES, 1990, V99, N4, P473-514
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

10/3/66 (Item 31 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

00883334 Genuine Article#: FD675 No. References: 5
Title: A GENERAL POLYNOMIAL SOLUTION TO THE MMSE DECONVOLUTION **PROBLEM**
Author(s): CHISCI L; MOSCA E
Corporate Source: UNIV FLORENCE,DIPARTIMENTO SISTEMI & INFORMAT/I-50139 FLORENCE//ITALY/
Journal: IEEE TRANSACTIONS ON SIGNAL PROCESSING, 1991, V39, N4, P962-965
Language: ENGLISH Document Type: LETTER (Abstract Available)

10/3/67 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2004 The HW Wilson Co. All rts. reserv.

2552548 H.W. WILSON RECORD NUMBER: BAST02137126
A Direct Approach to H2 Optimal Deconvolution **of Periodic Digital Channels**
Zhou, Huan; Xie, Lihua; Zhang, Cishen
IEEE Transactions on Signal Processing v. 50 no7 (July 2002) p. 1685-98
DOCUMENT TYPE: Feature Article ISSN: 1053-587X

10/3/68 (Item 2 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

2370663 H.W. WILSON RECORD NUMBER: BAST01056280
Mixed H2/ H **[** infinity **]** deconvolution **of uncertain periodic FIR channels**
Wang, Song; Xie, Lihua; Zhang, Cishen
Signal Processing v. 81 no10 (Oct. 2001) p. 2089-103
DOCUMENT TYPE: Feature Article ISSN: 0165-1684

10/3/69 (Item 3 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

2311574 H.W. WILSON RECORD NUMBER: BAST01010785
Genetic algorithm approach to fixed-order mixed H2/ H **[** infinity **] optimal** deconvolution **filter designs**
Hung, Jui-Chung; Chen, Bor-Sen
IEEE Transactions on Signal Processing v. 48 no12 (Dec. 2000) p. 3451-61
DOCUMENT TYPE: Feature Article ISSN: 1053-587X

10/3/70 (Item 4 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

2065813 H.W. WILSON RECORD NUMBER: BAST00020605
Fixed-order H2 and H **[** infinity **] optimal** deconvolution **filter designs**
Chen, Bor-Sen; Hung, Jui-Chung
Signal Processing v. 80 no2 (Feb. 2000) p. 311-31
DOCUMENT TYPE: Feature Article ISSN: 0165-1684

13/5/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06584643 E.I. No: EIP03447697822
Title: Adaptive blind source separation using a risk-sensitive criterion
Author: **Shimizu, Junya**
Corporate Source: IBM Research Tokyo Research Laboratory, Yamato-shi, 242-8502, Japan
Source: IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences v E86-A n 7 July 2003. p 1724-1731
Publication Year: 2003
CODEN: IFESEX ISSN: 0916-8508
Language: English
Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical); X; (Experimental)
Journal Announcement: 0311W1
Abstract: An adaptive blind signal separation filter is proposed using a risk-sensitive criterion framework. This criterion adopts an exponential type function. Hence, the proposed criterion varies the consideration weight of an adaptation quantity depending on errors in the estimates: the adaptation is accelerated when the estimation error is large, and unnecessary acceleration of the adaptation does not occur close to convergence. In addition, since the algorithm derivation process relates to an **H ** infinity** filtering, the derived algorithm has robustness to perturbations or estimation errors. Hence, this method converges faster than conventional least squares methods. Such effectiveness of the new algorithm is demonstrated by simulation. 11 Refs.
Descriptors: *Blind source separation; Adaptive algorithms; Perturbation techniques; Least squares approximations; Independent component analysis; Learning algorithms; Principal component analysis; Problem solving; Computer simulation
Identifiers: Risk-sensitive criterion; Estimation error
Classification Codes:
716.1 (Information & Communication Theory); 723.5 (Computer Applications); 921.6 (Numerical Methods)
716 (Electronic Equipment, Radar, Radio & Television); 723 (Computer Software, Data Handling & Applications); 921 (Applied Mathematics)
71 (ELECTRONICS & COMMUNICATION ENGINEERING); 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

13/5/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05099446 E.I. No: EIP98084345233
Title: H ** infinity filtering for noise reduction using a total least squares estimation approach
Author: **Shimizu, Jun'ya** ; Mitra, Sanjit K.
Corporate Source: Univ of California, Santa Barbara, CA, USA
Conference Title: Proceedings of the 1998 IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP. Part 3 (of 6)
Conference Location: Seattle, WA, USA Conference Date: 19980512-19980515
Sponsor: IEEE
E.I. Conference No.: 48801
Source: ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings v 3 1998. IEEE, Piscataway, NJ, USA,98CH36181. p 1645-1648
Publication Year: 1998
CODEN: IPRODJ ISSN: 0736-7791
Language: English
Document Type: CA; (Conference Article) Treatment: A; (Applications); T ; (Theoretical)
Journal Announcement: 9810W3
Abstract: A noise reduction algorithm for signals corrupted by additive unknown L//2 white noise is proposed using an **H ** infinity** filtering

framework. The proposed algorithm consists of two steps: a signal enhancement step and a parameter estimation step, which are iterated at each instant. To weaken the dependence between the signal enhancement step and the parameter estimation step, a total least squares estimation step for the dynamical model parameters needed in the **H ** infinity** filtering is introduced. The effectiveness of the proposed algorithm under low signal-to-noise ratio environments is demonstrated by simulation. (Author abstract) 6 Refs.

Descriptors: *Signal filtering and prediction; Signal to noise ratio; White noise; Least squares approximations; Algorithms; Parameter estimation ; Iterative methods; Mathematical models; Computer simulation

Identifiers: Signal enhancement; Total least squares estimation

Classification Codes:

716.1 (Information & Communication Theory); 921.6 (Numerical Methods); 723.5 (Computer Applications)

716 (Radar, Radio & TV Electronic Equipment); 921 (Applied Mathematics) ; 723 (Computer Software)

71 (ELECTRONICS & COMMUNICATIONS); 92 (ENGINEERING MATHEMATICS); 72 (COMPUTERS & DATA PROCESSING)

13/5/3 (Item 1 from file: 94)

05325660 JICST ACCESSION NUMBER: 03A0062996 FILE SEGMENT: JICST-E

Development of Atomic Level GMM Positioning/Alignment System for Driving a Gigantic Weight Spindle. Core Technology for Advanced .PHI.300mm Si Wafer Ultraprecision Machine Tool.

EDA HIROSHI (1); ZHOU L (1); KONDO RYO (1); NAKANO HIROTAMI (1); **SHIMIZU JUN** (1); MORI TERUO (2)
(1) Ibaraki Univ., Faculty of Engineering, JPN; (2) Tdk

Seimitsu Kogakkaishi(Journal of the Japan Society for Precision Engineering), 2003, VOL.69,NO.1, PAGE.100-104, FIG.19, REF.11
JOURNAL NUMBER: F0268ABQ ISSN NO: 0912-0289
UNIVERSAL DECIMAL CLASSIFICATION: 621.382.002.2 621.92
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

ABSTRACT: In order to achieve damage free surface of Si wafer by a single step grinding process, each cutting edge should be controlled below the critical depth of cut. Additionally, the achievable wafer flatness by infeed grinding significantly depends upon the alignment between the wafer and the wheel. As one of the core technologies of an integrated manufacturing system for .PHI.300mm silicon wafer, a GMM (giant magnetostrictive material) actuated positioning/alignment device has been designed and developed to control half a ton payload at .ANGS. resolution over the several .MU.m stroke range (about 5.MU.m) and simultaneously to align the co-axis between the work and wheel at the resolution of 0.1". This paper describes the design of the GMM actuator and elastically deformable mechanism for position/alignment, the control schemes and on-situ performance. (author abst.)

DESCRIPTORS: wafer(IC); silicon; ultraprecision machining; magnetostriction ; actuator; headstock; positioning; alignment; surface roughness; magnetostrictive material; position control; **H infinity** control; large type; grinding; positioning device; magnetic hysteresis
IDENTIFIERS: Preisach model
BROADER DESCRIPTORS: solid state circuit parts; circuit component; parts; electric apparatus and parts; third row element; element; carbon group element; precision machining; working and processing; magnetoelastic effect; magnetomechanical effect; magnetic property; magnetic field effect; effect; control equipment; equipment; machine tool element; machine element; surface quality; flatness(property); property; magnetic material; material; control; robust control; type; cutting(machining); machining; magnetization characteristic; characteristic; hysteresis; irreversible process; process
CLASSIFICATION CODE(S): NC03030V; QC03000R

13/5/4 (Item 2 from file: 94)
DIALOG(R)File 94:JICST-EPlus

04926686 JICST ACCESSION NUMBER: 01A0569766 FILE SEGMENT: JICST-E
Development of Control of Vibration Suppression Device Using Giant Magnetostriction Material.
EDA HIROSHI (1); OKADA YOJI (1); **SHIMIZU JUN** (1); ZHOU L (1); YAMAMOTO YOSHIO (2); UENO SATOSHI (3)
(1) Ibaraki Univ.; (2) Tokai Univ.; (3) Ibaraki Univ., Grad. Sch.
Nippon Kikai Gakkai Undo to Shindo no Seigyo Shinpojiumu Koen Ronbunshu, 2001, VOL.7th, PAGE.233-236, FIG.11, REF.3
JOURNAL NUMBER: L1196AAG
UNIVERSAL DECIMAL CLASSIFICATION: 624.041/.047 629.78
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication
ABSTRACT: The giant magnetostrictive materials(GMM) is characterized by high power, large displacement, fast response as well as safety, long lives and flexibility, which are often required by the aerospace structure. As one application of the giant magnetostrictive actuator, the vibration suppression for the aerospace structure has been explored. In this report, results of the several simple vibration control simulations and experiments using developed devise and/or simulation model are reported. They show that vibration suppression in 10s can be realized. Low voltage drive of GMM in vacuum and inflammable atmosphere may be of vital significance. A novel pressure sensor incorporating with a telecommunication capability has been developed and its performance has also been evaluated. (author abst.)
DESCRIPTORS: magnetostriction; vibration control; actuator; aerospace structure; computer simulation; telemetry; **H infinity** control; robust control
BROADER DESCRIPTORS: magnetoelastic effect; magnetomechanical effect; magnetic property; magnetic field effect; effect; control; control equipment; equipment; structure(construction); computer application; utilization; simulation; measurement
CLASSIFICATION CODE(S): HD02000E; QK08000Y

13/5/5 (Item 3 from file: 94)
DIALOG(R)File 94:JICST-EPlus

04049874 JICST ACCESSION NUMBER: 99A0402807 FILE SEGMENT: JICST-E
Study on Control of Vibration Suppression Device Using Giant Magnetostriction Material.
EDA HIROSHI (1); OKADA YOJI (1); **SHIMIZU JUN** (1); YAMAMOTO YOSHIO (2); UENO SATOSHI (3)
(1) Ibaraki Univ.; (2) Tokai Univ.; (3) Ibaraki Univ., Grad. Sch.
Nippon Kikai Gakkai Undo to Shindo no Seigyo Shinpojiumu Koen Ronbunshu, 1999, VOL.6th, PAGE.355-358, FIG.8, REF.2
JOURNAL NUMBER: L1196AAG
UNIVERSAL DECIMAL CLASSIFICATION: 629.7.01/.02
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication
ABSTRACT: Practically speaking, research on Giant Magnetostriction Materials(GMM) has its origin at the finding by A.E. Clark and his colleagues in 1963 that a group of rare-earth alloys exhibit outstanding magnetostriction of as much as several thousands ppm near absolute zero temperature. In this article, development of a vibration suppression device equipped with giant magnetostriction actuators for the space structure is reported. Simulation model of the control target and the controller are proposed and simulation of vibration control is

performed. From the simulation result, possibility of the fast vibration suppression is confirmed. Several simple vibration control experiments using produced devise is also conducted and they show that vibration suppression in 10s can be realized. (author abst.)

DESCRIPTORS: aerospace structure; vibration isolator; magnetostriction; actuator; system design; **H infinity** control; simulation model; vibration control structure

BROADER DESCRIPTORS: structure(construction); equipment; magnetoelastic effect; magnetomechanical effect; magnetic property; magnetic field effect; effect; control equipment; design; robust control; control; model; earthquake-resistant structure; structure

CLASSIFICATION CODE(S): QK04010H

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File 347:JAPIO Nov 1976-2004/May(Updated 040903)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200457
         (c) 2004  Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2004/Aug W05
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040902,UT=20040826
         (c) 2004 WIPO/Univentio

Set     Items   Description
S1       1277   AU=SHIMIZU J?
S2          0   S1 AND (H()INFINITY)
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File 347:JAPIO Nov 1976-2004/May(Updated 040903)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200457
(c) 2004 Thomson Derwent

Set	Items	Description
S1	68	H()INFINITY
S2	74539	SIGNAL? ?(3N)(SEPARAT? OR DIVID??? OR DIVISION? ? OR SPLIT-???? OR BREAK???()UP)
S3	100	BLIND(2W)SEPARAT?
S4	513	DECONVOL?
S5	0	S1 AND S2
S6	0	S1 AND S3
S7	0	S1 AND S4

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File 275:Gale Group Computer DB(TM) 1983-2004/Sep 09
         (c) 2004 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Sep 08
         (c) 2004 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2004/Sep 09
         (c) 2004 The Gale Group
File  16:Gale Group PROMT(R) 1990-2004/Sep 09
         (c) 2004 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2004/Sep 08
         (c)2004 The Gale Group
File 624:McGraw-Hill Publications 1985-2004/Sep 08
         (c) 2004 McGraw-Hill Co. Inc
File  15:ABI/Inform(R) 1971-2004/Sep 08
         (c) 2004 ProQuest Info&Learning
File 647:CMP  Computer Fulltext 1988-2004/Aug W5
         (c) 2004 CMP Media, LLC
File 674:Computer News Fulltext 1989-2004/Aug W3
         (c) 2004 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2004/Sep 08
         (c) 2004 The Dialog Corp.
File 369:New Scientist 1994-2004/Aug W5
         (c) 2004 Reed Business Information Ltd.

Set     Items   Description
S1         66   H()INFINITY
S2      13801   SIGNAL? ?(3N)(SEPARAT? OR DIVID??? OR DIVISION? ? OR SPLIT-
             ???? OR BREAK???()UP)
S3         40   BLIND(2W)SEPARAT?
S4        670   DECONVOL?
S5          0   S1(100N)S2
S6          0   S1(100N)S3
S7          0   S1(100N)S4
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File 348:EUROPEAN PATENTS 1978-2004/Aug W05
(c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040902,UT=20040826
(c) 2004 WIPO/Univentio

Set	Items	Description
S1	69	H()INFINITY
S2	54369	SIGNAL? ?(3N)(SEPARAT? OR DIVID??? OR DIVISION? ? OR SPLIT-???? OR BREAK???()UP)
S3	135	BLIND(2W)SEPARAT?
S4	4705	DECONVOL?
S5	0	S1(100N)S2
S6	0	S1(100N)S3
S7	0	S1(100N)S4
S8	6	S1 AND S2
S9	0	S1 AND S3
S10	1	S1 AND S4
S11	7	S8:S10

11/5,K/1 **(Item 1 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS

01704740
Differential pumping system and exposure apparatus
Differentialpumpvorrichtung und Belichtungsgerat
Systeme de pompage differentiel et appareil d'exposition
PATENT ASSIGNEE:
CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Applicant designated States: all)
INVENTOR:
Ohgushi, Nobuaki Canon Kabushiki Kaisha, 30-2, 3-chome Shimomaruko Ohta-ku, Tokyo, (JP)
Miyake, Akira Canon Kabushiki Kaisha, 30-2, 3-chome Shimomaruko Ohta-ku, Tokyo, (JP)
Hasegawa, Takayuki Canon Kabushiki Kaisha, 30-2, 3-chome Shimomaruko Ohta-ku, Tokyo, (JP)
Ito, Jun Canon Kabushiki Kaisha, 30-2, 3-chome Shimomaruko Ohta-ku, Tokyo , (JP)
LEGAL REPRESENTATIVE:
Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 16 High Holborn, London WC1V 6BX, (GB)
PATENT (CC, No, Kind, Date): EP 1396758 A2 040310 (Basic)
APPLICATION (CC, No, Date): EP 2003255177 030821;
PRIORITY (CC, No, Date): JP 2002258087 020903; JP 2003107771 030411
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: G03F-007/20

ABSTRACT EP 1396758 A2
A differential pumping system includes a first chamber for storing a light source that emits pulsed light, a first exhaust unit for exhausting said first chamber, a second chamber being connectible to the first chamber to receive the pulsed light, a second exhaust unit for exhausting said second chamber, and a connection control mechanism between the first and second chambers for connecting the first chamber to the second chamber when the pulsed light emits, and for disconnecting the first chamber from the second chamber when the pulsed light does not emit.
ABSTRACT WORD COUNT: 92
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 040310 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language Update Word Count
CLAIMS A (English) 200411 1365
SPEC A (English) 200411 9374
Total word count - document A 10739
Total word count - document B 0
Total word count - documents A + B 10739

...SPECIFICATION trigger signal of the pulsed light, and generating a reference signal for the rotation of the rotator, calculating a phase difference signal from the reference **signal** and a **divided signal** so that the rotation of the rotator has the same frequency as that of the reference signal, calculating a phase difference from the reference signal...monitored by an encoder 1009, and divided by an Ne divider 1010 that is set so that it has the same frequency as the reference **signal** . Two **divided signals** are input to a phase comparator 1011 for exclusive OR operations, providing a waveform shown in a fifth stage in FIG. 8. The duty ratio...

...circuit uses Proportional Integral and Differential ("PID") control for control operations, while the DSP uses a modern control, such as PID

control, optimal regulator and **H (infinity)** control for control operations. The motor 314's driving 1007 is controlled in accordance with the control amount from the controller 320, or so that...

...of the sensor 322 is determined by a hole diameter.
The rotator 2112's rotation is monitored by an encoder 2114 in FIG. 24, and **divided** into an encoder **signal** (in a fourth stage in FIG. 25) by an Ne divider 2115 that is set so that it has the same frequency as the reference...

...and the analogue circuit uses PDI control for control operations, while the DSP performs uses a modern control, such as PID control, optimal regulator and **H (infinity)** control for control operations. A motor 2111 is driven in accordance with the control amount from a phase controller 2110. The motor 2111 may use...

...CLAIMS trigger signal of the pulsed light, and generating a reference signal for the rotation of the rotator;
calculating a phase difference signal from the reference **signal** and a **divided signal** so that the rotation of the rotator has the same frequency as that of the reference signal;
calculating a phase difference from the reference signal...

11/5,K/2 (Item 2 from file: 348)

01265085
Air-fuel ratio control apparatus for multicylinder internal ombustion engine
Steuerungsvorrichtung fur das Kraftstoff-Luftverhaltnis in einer mehrzylindrigen Brennkraftmaschine
Dispositif de commande du rapport air-carburant pour moteur a combustion interne a plusieurs cylindres
PATENT ASSIGNEE:
HONDA GIKEN KOGYO KABUSHIKI KAISHA, (2060610), 1-1, Minami-Aoyama 2-chome , Minato-ku Tokyo, (JP), (Applicant designated States: all)
INVENTOR:
Yasui, Yuji, c/o K.K. Honda Giyutsu Kenkyusho, 4-1 Chuo 1-chome, Wako-shi, Saitama-ken, (JP)
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Akazaki, Shusuke, c/o K.K. Honda Giyutsu Kenkyusho, 4-1 Chuo 1-chome, Wako-shi, Saitama-ken, (JP)
LEGAL REPRESENTATIVE:
Tothill, John Paul (81551), Frank B. Dehn & Co. 179 Queen Victoria Street , London EC4V 4EL, (GB)
PATENT (CC, No, Kind, Date): EP 1091109 A2 010411 (Basic)
EP 1091109 A3 030108
APPLICATION (CC, No, Date): EP 2000308874 001009;
PRIORITY (CC, No, Date): JP 99288511 991008
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: F02D-041/14; F02D-041/26; F02D-041/36

ABSTRACT EP 1091109 A2
An exhaust system is regarded as being equivalent to a system for generating an output of an O2)) sensor (12) or exhaust gas sensor from a combined air-fuel ratio that is produced by combining outputs of air-fuel ratio sensors (13, 14) associated with respective cylinder groups (3, 4) according to a filtering process of the mixed model type. With the equivalent system as an object to be controlled, an exhaust system controller (15) determines a target value for the combined air-fuel ratio, and determines a target air-fuel ratio for the cylinder groups (3, 4) from the target combined air-fuel ratio. The outputs of the air-fuel ratio sensors (13, 14) are converted to the target combined air-fuel ratio under feedback control.

ABSTRACT WORD COUNT: 121
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 010411 A2 Published application without search report
Search Report: 030108 A3 Separate publication of the search report
Examination: 030625 A2 Date of request for examination: 20030422
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200115	2275
SPEC A	(English)	200115	33269
Total word count - document A			35544
Total word count - document B			0
Total word count - documents A + B			35544

...SPECIFICATION No. 5,531,208, for example, and will not be described below.
Each of the PID controllers 42 of the local feed-back controller 36 **divides** the output **signal** KACT/B from the LAF sensor 14 by an average value of the feedback correction coefficients #nKLAF for all the cylinders of the cylinder group...combined differential air-fuel ratio kcmd/t. However, any of various other feedback control processes including an adaptive control process, an optimum control process, an **H** (**infinity**) control process, etc. may be used.
In the above embodiment, the values of the gain coefficients a1, a2, b1 which are parameters to be set...

11/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00711605
Reconfigurable data processing stage
Rekonfigurierbare Datenverarbeitungsstufe
Etage d'operation de donnees reconfigurable
PATENT ASSIGNEE:
DISCOVISION ASSOCIATES, (260273), 2355 Main Street Suite 200, Irvine, CA 92714, (US), (Proprietor designated states: all)
INVENTOR:
Wise, Adrian Philip, 10 Westbourne Cottages, Frenchay, Bristol, BS16 1NA, (GB)
Sotheran, Martin William, The Ridings, Wick Lane, Stinchcombe, Dursley, Gloucestershire, GL11 6BD, (GB)
Robbins, William Philip, 19 Springhill, Cam, Gloucestershire, GL11 5PE, (GB)
LEGAL REPRESENTATIVE:
Vuillermoz, Bruno et al (72791), Cabinet Laurent & Charras B.P. 32 20, rue Louis Chirpaz, 69131 Ecully Cedex, (FR)
PATENT (CC, No, Kind, Date): EP 674446 A2 950927 (Basic)
EP 674446 A3 960814
EP 674446 B1 010801
APPLICATION (CC, No, Date): EP 95301300 950228;
PRIORITY (CC, No, Date): GB 9405914 940324
DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IE; IT; LI; NL
INTERNATIONAL PATENT CLASS: H04N-007/24; G06F-013/00; G06F-009/38
CITED PATENTS (EP B): EP 572766 A; EP 576749 A; WO 94/25935 A
CITED REFERENCES (EP B):
ARCHITECTURE, UNIVERSITY PARK, AUG. 15 - 19, 1988, vol. 1, 15 August 1988, BRIGGS F A, pages 209-216, XP000079309 KAORU UCHIDA ET AL: "A PIPELINED DATAFLOW DATAFLOW PROCESSOR ARCHITECTURE BASED ON A VARIABLE LENGTH TOKEN CONCEPT"
IEEE JOURNAL OF SOLID-STATE CIRCUITS, vol. 23, no. 1, pages 111-117, XP000051576 KOMORI S ET AL: "AN ELASTIC PIPELINE MECHANISM BY SELF-TIMED CIRCUITS"
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS, vol. 36, no. 10, 1 October

1989, pages 1267-1274, XP000085313 TOKUMICHI MURAKAMI ET AL: "A DSP ARCHITECTURAL DESIGN FOR LOW BIT-RATE MOTION VIDEO CODEC"
IEE PROCEEDINGS E. COMPUTERS & DIGITAL TECHNIQUES, vol. 139, no. 3 PART E, 1 May 1992, pages 269-279, XP000306411 ELLIOTT J A ET AL: "REAL-TIME SIMULATION OF VIDEOPHONE IMAGE CODING ALGORITHMS ON RECONFIGURABLE MULTICOMPUTERS"
PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS, ROSEMONT, JUNE 8 - 10, 1993, no. CONF. 12, 8 June 1993, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, page 294/295 XP000427624 MAYER A C: "THE ARCHITECTURE OF A SINGLE-CHIP PROCESSOR ARRAY FOR VIDEOCOMPRESSION"
4TH INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING APPLICATIONS & TECHNOLOGY, vol. 2, 28 September 1993 - 1 October 1993, SANTA CLARA, CALIFORNIA, US, pages 1031-1038, XP002014370 TOM KOPET: "Programmable architectures for real-time video compression"
WESCON '84 CONFERENCE RECORD, ANAHEIM, CA, USA, 30 October 1984 - 1 November 1984, pages 4.6.1-4.6.10, XP002014371 Y.M.CHONG: "A Data-Flow Architecure for Digital Image Processing";

ABSTRACT EP 674446 A3

A multi-standard video decompression apparatus has a plurality of stages interconnected by a two-wire interface arranged as a pipeline processing machine. Control tokens and DATA Tokens pass over the single two-wire interface for carrying both control and data in token format. A token decode circuit is positioned in certain of the stages for recognizing certain of the tokens as control tokens pertinent to that stage and for passing unrecognized control tokens along the pipeline. Reconfiguration processing circuits are positioned in selected stages and are responsive to a recognized control token for reconfiguring such stage to handle an identified DATA Token. A wide variety of unique supporting subsystem circuitry and processing techniques are disclosed for implementing the system. (see image in original document)

ABSTRACT WORD COUNT: 144

NOTE:

Figure number on first page: 10

LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant:	010801	B1	Granted patent
Application:	950927	A2	Published application (A1with Search Report ;A2without Search Report)
Lapse:	030423	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010801, BE 20010801, GB 20020228, IE 20020228, NL 20010801,
Lapse:	030102	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010801, BE 20010801, GB 20020228,
Lapse:	020717	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010801, BE 20010801,
Lapse:	020410	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010801,
Oppn None:	020724	B1	No opposition filed: 20020503
Lapse:	030219	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010801, BE 20010801, GB 20020228, NL 20010801,
Change:	960501	A2	International patent classification (change)
Change:	960501	A2	Obligatory supplementary classification (change)
Search Report:	960814	A3	Separate publication of the European or International search report
Examination:	970409	A2	Date of filing of request for examination: 970212
Change:	971105	A2	Representative (change)
Examination:	990901	A2	Date of dispatch of the first examination report: 19990713

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	2475
CLAIMS B	(English)	200131	1079
CLAIMS B	(German)	200131	1072
CLAIMS B	(French)	200131	1186
SPEC A	(English)	EPAB95	125236
SPEC B	(English)	200131	121335
Total word count - document A			127738
Total word count - document B			124672
Total word count - documents A + B			252410

...SPECIFICATION updates the quantization step size used to quantize coefficients which describe, for example, an image to be transmitted over a communications channel. The data is **divided** into sectors, each sector including a plurality of blocks. The blocks are encoded, for example, using DCT coding, to generate a sequence of coefficients for...storage elements. Also, although the VALID signal and the data lines connect the various pipeline stages as before, for ease of illustration, only the ACCEPT **signal** is snown in Fig. 3. A change of state during a clock phase of certain of the ACCEPT signals is indicated in Fig. 3 using...

...is LOW, but since this storage element does not contain valid data, it sets the ACCEPT signal into its secondary storage element HIGH.

The ACCEPT **signal** from the secondary storage elements of Stage F into the primary storage elements of Stage E is also set HIGH since the secondary storage elements...

...forth.

The primary storage element of Stage F still does not contain valid data during the o0 phase in Cycle 2 and, therefore, the ACCEPT **signal** from the primary storage elements into the secondary storage elements of Stage F remains HIGH. During the o1 phase in Cycle 2, data can therefore ...ACCEPT. Conventional logic gates, NAND1 and NAND2, perform the NAND operation, and the inverters INV1, INV2 form the logical inverses of the respective acceptance **signals** .

As is well known in the art of digital design, the output from a NAND gate is a logical "1" when any or all of...from its acceptance latch LA) that is LOW, and its data latch LDIN or LDOUT will not be loaded. Hence, as long as the acceptance **signal** (the output from the acceptance latch) of a given stage or side (input or output) of a stage is LOW, its corresponding data latch will...TOKEN. In the normal situation, the **signal** QI1 at the input to NAND20 and the signal S1 at the input to NAND22 will both be at logic "1". It can be shown...

...token (and, thus, includes the address field for the token). In this situation, the signal S1 may be either "0" or "1". As explained earlier, **signal** S1 will be "0" if the MIDTOKEN **signal** will become "0", indicating that the circuitry is not processing a DATA token.

If QI1 is "0" and SO is "0", thereby indicating a DATA token, then the **signal** S2 will be "1" (regardless of the other input to NAND22 from the output of NAND20). As a result, this "1" value will be loaded... understand the relationship between tokens which, alone or in combination with other control tokens, emulate the nondata information contained in the standard bit stream. A **separate** set of index **signals** , including flag signals, are generated by each state machine to handle some of the processing within that state machine. Values carried in the standards can ...

...SPECIFICATION with the two-wire transfer control;

Figures. 5a and 5b taken together depict one example of a timing diagram that shows the relationship between timing **signals** , input and output data, and internal control signals used in the pipeline stage ... understand the relationship between tokens which, alone or in combination with other control tokens, emulate the nondata information contained in the standard bit stream. A **separate** set of index **signals** , including flag signals, are generated by each state machine to handle some of the processing within that state machine. Values carried in the standards can

...allows random access and enhanced error recovery.
A STOP(underscore)AFTER(underscore)PICTURE token is a method of achieving a clear end to decoding which **signals** the end of a picture and clears the decoder pipeline, i.e., channel change.
Furthermore, padding a token is a way of passing an arbitrary...until either there is no more data, or RAM1 is full. When RAM1 311 is full, the input side gives up control and sends a **signal** to the read side to indicate that RAM1 is now ready to be read. This signal passes between two asynchronous clock regimes and, therefore, passes...is configured for JPEG operation.

A.2.1.4 H.261 decoding
The Spatial Decoder and the Temporal Decoder are both required to implement an **H** .261 video decoder. The DRAM interfaces on both devices are configurable to allow the quantity of DRAM required for proper operation to be reduced when...

11/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00334258
INDUSTRIAL CONTROL SYSTEMS.
REGELUNGSSYSTEM.
SYSTEMES DE COMMANDE DE PROCESSUS INDUSTRIELS.
PATENT ASSIGNEE:
BRITISH TECHNOLOGY GROUP LIMITED, (1475430), 101 Newington Causeway, London SE1 6BU, (GB), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)
INVENTOR:
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Fairbairn, Niall A.,, 59 Durward Ave,, Shawlands, Glasgow G41 3UW, (GB)
LEGAL REPRESENTATIVE:
Chandler, Derek Richard et al (29221), Patents Department British Technology Group Ltd 101 Newington Causeway, London SE1 6BU, (GB)
PATENT (CC, No, Kind, Date): EP 377678 A1 900718 (Basic)
EP 377678 B1 941214
WO 8905002 890601
APPLICATION (CC, No, Date): EP 88910072 881124; WO 88GB1024 881124
PRIORITY (CC, No, Date): GB 8727602 871125
DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: G05B-013/02;
CITED REFERENCES (EP A):
See also references of WO8905002;
NOTE:
No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	900718	A1	Published application (A1with Search Report ;A2without Search Report)
Examination:	900718	A1	Date of filing of request for examination: 900503
Change:	920902	A1	Representative (change)
*Assignee:	920902	A1	Applicant (transfer of rights) (change): BRITISH TECHNOLOGY GROUP LTD (1475430) 101 Newington Causeway London SE1 6BU (GB) (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)
Examination:	921216	A1	Date of despatch of first examination report: 921103
Grant:	941214	B1	Granted patent
Lapse:	950726	B1	Date of lapse of the European patent in a Contracting State: DE 950315
Lapse:	950802	B1	Date of lapse of the European patent in a Contracting State: CH 941214, LI 941214, DE 950315
Lapse:	950802	B1	Date of lapse of the European patent in a

		Contracting State: CH 941214, LI 941214, DE 950315
Lapse:	950830 B1	Date of lapse of the European patent in a Contracting State: CH 941214, LI 941214, DE 950315, NL 941214
Lapse:	951004 B1	Date of lapse of the European patent in a Contracting State: AT 941214, CH 941214, LI 941214, DE 950315, NL 941214
Lapse:	951011 B1	Date of lapse of the European patent in a Contracting State: AT 941214, CH 941214, LI 941214, DE 950315, FR 950512, NL 941214
Lapse:	951018 B1	Date of lapse of the European patent in a Contracting State: AT 941214, BE 941214, CH 941214, LI 941214, DE 950315, FR 950512, NL 941214, SE 950314
Lapse:	951018 B1	Date of lapse of the European patent in a Contracting State: AT 941214, BE 941214, CH 941214, LI 941214, DE 950315, FR 950512, NL 941214, SE 950314
Oppn None:	951206 B1	No opposition filed
Lapse:	991020 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19941214, BE 19941214, CH 19941214, LI 19941214, DE 19950315, FR 19950512, IT 19941214, NL 19941214, SE 19950314,

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	428
CLAIMS B	(German)	EPBBF1	414
CLAIMS B	(French)	EPBBF1	500
SPEC B	(English)	EPBBF1	8459
Total word count - document A			0
Total word count - document B			9801
Total word count - documents A + B			9801

...SPECIFICATION detected in the general characteristics or behaviour of the system being controlled by continual parameter adjustment.
One known controller design technique is known as H (**H - infinity**) design. This has various advantages, but it has the drawback that the calculations involved in determining an H controller in any particular instance are in...p coefficients to an adder circuit 65. The outputs of the adders 62 and 65 are fed to a division circuit 66, which produces the **signal** u by **dividing** the output of adder 62 by the output of adder 66.
It will be noted that there is no scaling circuit for the undelayed u
...

11/5,K/5 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

01040391
VIBRATION CONTROL UTILIZING SIGNAL DETRENDING
MAITRISE DE VIBRATION PAR DECOMPOSITION DE SIGNAL
Patent Applicant/Assignee:
CYMER INC, 16750 Via Del Campo Court, San Diego, CA 92127-1712, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
JACQUES Robert N, 2 Mayflower Road, Andover, MA 01810, US, US (Residence), US (Nationality), (Designated only for: US)
WARKENTIN David J, 199 Mass Avenue, Apt. 914, Boston, MA 02115, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
ROSS John R (agent), Cymer, Inc., Legal Department MS/1-2A, 16750 Via Del Campo Court, San Diego, CA 92127-1712, US,
Patent and Priority Information (Country, Number, Date):

Patent: WO 200369733 A1 20030821 (WO 0369733)
Application: WO 2003US1332 20030115 (PCT/WO US0301332)
Priority Application: US 200274059 20020211; US 2002112443 20020329
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H01R-003/00
International Patent Class: B23P-019/00
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 4673

English Abstract
A vibration reducing system includes a position control dive (65) and a vibration control drive (45). At least one position sensor (60) is used to provide feedback signals which are in turn unses to provide control signals fore both the position control drive (65) and the vibration control drive (45).

French Abstract
L'invention concerne un systeme de reduction de vibration comprenant une unite de commande de position (65) et une unite de commande de vibration (45). Un capteur de position (60), au moins, est utilise afin de fournir des signaux de retroaction qui sont utilises pour envoyer des signaux de commande a la fois a l'unite de commande de position (65) et a l'unite de commande de vibration (45).

Legal Status (Type, Date, Text)
Publication 20030821 A1 With international search report.
Publication 20030821 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:
Detailed Description
Claims

Detailed Description
... vibration reduction feedback controller may be any SISO or MIMO controller. The MIMO controller is based upon Linear Quadratic Guassian (LQG) techniques, or musynthesis, or **H - infinity** techniques.

Accordingly, the reader is requested to determine the scope of the invention by the appended claims and their legal equivalents and not by the...

Claim
... at least one vibration control drive, and
E) a computer processor for controlling vibration said processor having been
programmed with
(1) a separation algorithm for **separating** vibration **signals** from said feedback position signals, and
(2) a feedback control algorithm for commanding said vibration control drive to reduce vibrations in said motion controlled component...

11/5,K/6 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00989926
ARCHITECTURE TOOL AND METHODS OF USE
INSTRUMENT D'ARCHITECTURE ET PROCEDES D'UTILISATION
Patent Applicant/Assignee:
SCIPERIO INC, 5202-2 N. Richmond Hill Road, Stillwater, OK 74075, US, US (Residence), US (Nationality)
Inventor(s):
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STEWART Robert L, 3602 North Washington #67, Stillwater, OK 74075, US,
KACHURIN Anatoly M, 1110 South Ridge Drive, Stillwater, OK 74074, US,
TAYLOR Robert M, 14404 S. Fairgrounds, Perkins, OK 74059, US,
HARGRAVE Brian H, 831 Moore, Stillwater, OK 74074, US,
CHURCH Kenneth H, 1808 East Virginia, Stillwater, OK 74075, US,
NGUYEN Michael N, 1301 Greystone, Stillwater, OK 74074, US,
KARGEL Mark L, 5122 W. 1st Avenue, Stillwater, OK 74074, US,
SIMPKINS Mark W, 316 N. Stallard, Stillwater, OK 74075, US,
Legal Representative:
FAILS Charles H (agent), Needle & Rosenberg, P.C., Suite 1200, The Candler Building, 127 Peachtree Street, N.E., Atlanta, GA 30303-1811, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200317745 A2 20030306 (WO 0317745)
Application: WO 2002US26866 20020823 (PCT/WO US0226866)
Priority Application: US 2001314344 20010823; US 2001337378 20011204; US 2001337383 20011204; US 2001340706 20011211
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 48029

English Abstract
The invention provides an apparatus and methods for depositing materials on a substrate, and for performing other selected functions, such as material destruction and removal, temperature control, imaging, detection, therapy and positional and locational control. In various embodiments, the apparatus and methods are suitable for use in a tabletop setting, in vitro or in vivo.

French Abstract
L'invention concerne un dispositif et des procedes permettant de deposer des matieres sur un substrat et d'executer d'autres fonctions choisies, tels que destruction et elimination de matieres, regulation de la temperature, visualisation, detection, traitement et commande de positionnement et de localisation. Dans diverses formes de realisation, ce dispositif et ces procedes conviennent pour une utilisation dans des installations de table (tabletop), in vitro ou in vivo.

Legal Status (Type, Date, Text)
Publication 20030306 A2 Without international search report and to be

republished upon receipt of that report.
Correction 20030717 Corrections of entry in Section 1: under (30) add "60/337,383, 4 December 2001 (04.12.2001), US" and "60/340,706, 11 December 2001 (11.12.2001), US"
Republication 20030717 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability:
Claims

Claim
... broad band centered near 3,600 cm, or 2.8 it m). A two-pronged approach to remote IR analysis of cellular surfaces comprises (1) **deconvoluting** the water signal and (2) focusing on the spectrum away from the water lines. In the first, the results of research at UA, which show...FD controller. In other embodiments, the DPS may to be reduced to a FD model that allows the design of a typical robust control scheme (**H - infinity** , sliding-mode, adaptive, etc.).
Probe Tip Movement and Platform
Some embodiments of the invention include devices and methods for providing accurate positioning of the tip...

11/5,K/7 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00158631
INDUSTRIAL CONTROL SYSTEMS
SYSTEMES DE COMMANDE DE PROCESSUS INDUSTRIELS
Patent Applicant/Assignee:
NATIONAL RESEARCH DEVELOPMENT CORPORATION,
GRIMBLE Michael John,
FAIRBAIRN Niall Andrew,
Inventor(s):
GRIMBLE Michael John,
FAIRBAIRN Niall Andrew,
Patent and Priority Information (Country, Number, Date):
Patent: WO 8905002 A1 19890601
Application: WO 88GB1024 19881124 (PCT/WO GB8801024)
Priority Application: GB 8727602 19871125
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AT BE CH DE FR GB IT JP LU NL SE US
Main International Patent Class: G05B-013/02
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 9110

English Abstract
An adaptive Hy industrial control system comprises a controller (21) controlling an industrial process (20) (ship, rolling mill, etc.), the state of which is measured (y). The controller and process outputs are fed to a parameter estimator (34) which estimates the operating polynomials (transfer functions or delay operator functions) A, B, and C of the process. A controller design unit (35) processes the output of estimator (34) to produce coefficients for the controller (21), which implements a polynomial ratio Cn/Cd. Unit (35) implements an on-line Hy algorithm based on minimizing a "square of sum" form of function (Pc.u(t)+Fc.e(t))2, which results in equations which are easier to solve than those arising from the usual "sum of squares" form of function. A polynomial L=PcnFcdB-FcnPcdA is calculated at (72), the unstable zeros L- calculated at (73), the matrix equations FAPcdlambda+L-G=PcnCF*z-n; FBFcdlambda-L-H=FcnCF*z-n calculated at (74), the extreme eigenvalue extracted at (75), the corresponding eigenvector extracted at (76), and

Cn and Cd calculated as GFcd and HPcd at (77) for passing to the controller unit (21). Instead of this eigenvector/eigenvalue technique, a modification (the F-iteration technique) can be used, in which the equations FAPcdlambda+L-G=PcnC; FBFcdlambda-L-H=FcnC are solved, F*, the adjoint of F, is calculated, the polynomials on the right-hand side of these equations are multiplied by this adjoint, and the procedure is iterated. The parameters of Fc and Pc may be adjustable.

French Abstract

Un systeme adaptatif de commande de processus industriels de type Hy comprend une unite de commande (21) qui effectue la regulation d'un processus industriel (20) (navire, laminoir, etc.), dont l'etat doit etre mesure (y). Le signaux de sortie de l'unite de commande et du processus sont achemines dans un estimateur parametrique (34) qui estime les polynomes operationels (fonctions de transfert) ou fonctions operatrices de retard) A, B et C du processus. Un organe (35) de conception de l'unite de commande traite les signaux de sortie de l'estimateur (34) afin de produire des coefficients pour l'unite de commande (21), qui etablit un raport polynomial Cn/Cd. L'organe (35) utilise un algorithme de type Hy en ligne se fondant sur la reduction au minimum d'une forme "carree de somme" de la fonction (Pc.(t)+Fc.e(t))2, ce qui a pour resultat des ecuations qui sont plus faciles a resoudre que les equations provenant de la forme habituelle "somme de carres" de la fonction. Un polynome L=PcnFcdB-FcnPcdA est calcule en (72), les zeros instables L- sont calcules en (73), les equations matricielles FAPcdlambda+L-G=PcnCF*z-n; FBFcdlambda-L-H=FcnCF*z-n sont calculees en (74), la valeur propre extreme est extraite en (75), le vecteur propre correspondant est extrait en (76) et Cn et Cd sont calcules sous la forme GFcd et HPcd en (77) pour etre transmis a l'unite de commande (21). A la place de cette technique par vecteur propre/valeur propre, on peut utiliser une technique modifiee (de type F-iteration), dans laquelle les equations FAPcdlambda+L-G=PcnC; FBFcdlambda-L-H=FcnC sont resolues, F*, qui est l'adjoint de F, est calcule, les polynomes se trouvant du cote droit de ces equations sont multiplies par cet adjoint et la procedure est soumise a une iteration. On peut faire varier les parametres de Fc et Pc.

Fulltext Availability:
Detailed Description

Detailed Description
... detected in the general characteristics or behaviour of the system being controlled by continual parameter adjustment

One known controller design technique is known as Ha' (**H - infinity**) design. This has various advantages, but it has the drawback that the calculations involved in determining an Hoe controller in any particular instance are in...p coefficients to an adder circuit 65. The outputs of the adders 62 and 65 are fed to a division circuit 66, which produces the **signal** u by **dividing** the output of adder 62 by the output of adder 66